# Soil Foodweb Report

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*"Dedicated to promote peace, harmony, and dignity amongst all living things."*

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**Sample Name: Inoculated Compost**
**Sample Type: Compost**
**Plants Present/Desired: For Tea**

| **Beneficial Microorganisms** | **Recommened Range** | **Sample Results** | = Standard Deviation |
|---|---|---|---|
| Bacteria (um/g) | 300 - 1,000 | 1,530 | High: The bacterial biomass is above the recommended range. Needs to be reduced. |
| | | 270 | |
| Actinobacteria (um/g) | 1 - 6 | 0.4 | Good: The actinobacteria is within range for healthy soils with your types of plants. |
| | | 0.4 | |
| Fungi (um/g) | 150 - 500 | 120 | Low: The beneficial fungal biomass does not meet the minimum recommendations. Need to replenish and enhance. |
| | | 140 | |
| F:B Ratio | 0.5:1 – 0.8:1 | 0.08 | Low: The bacterial biomass needs to be reduced and the fungal biomass needs to be replenished. Once this is achieved, then the F:B ratio will be closer to the desired range for your types of plants. |
| | **Minimum Value** | | |
| *Protozoa* ***(Total)*** | >50,000 | 40,800 | Low: Bacteria is the main source of food for protozoa. Protozoa help to keep the bacterial biomass in range and release nutrients into plant available forms by consuming the bacteria. Need to replenish. |
| Flagellate (#/g) | *(See Total)* | 16,300 | |
| | | 22,300 | |
| Amoebae (#/g) | *(See Total)* | 24,500 | |
| | | 54,700 | |
| *Nematodes* | | | |
| Bacterial-feeding (#/g) | 100 | 100 | Good: Minimum numbers met. |
| Fungal-feeding (#/g) | 10 | 0 | None detected: Fungal-feeding nematodes help to release nutrients from fungal hyphae to the plants. Need to replenish. |
| Predatory (#/g) | 1 | 0 | None detected: Need to replenish. |
| **Detrimental Microorganisms** | | | |
| *Disease-Causing Fungi* | **Maximum Value** | | |
| Oomycetes (um/g) | 0 | 0 | None detected. No disease-causing fungi were observed in the sample. Great! |
| | | 0 | |
| *Anaerobic Protozoa* | | | |
| Ciliate (#/g) | 0 | 0 | None detected: No ciliates were observed in the sample. Great! |
| | | 0 | |
| *Nematode* | | | |
| Root-feeding (#/g) | 0 | 0 | None detected. No root-feeding nematodes were detected. Great! |

| | |
|---|---|
| Were any anaerobic indicating bacteria observed in the sample? | Yes; lactobacillus |
| Were any pathogenic bacteria observed in the sample? | Yes; spirochetes |